```
ISIS-II PL/M-86 V2.0 COMPILATION OF MODULE ERRORM
OBJECT MODULE PLACED IN ERMOD.OBJ
COMPILER INVOKED BY:  :F0:ERMOD.PLM DEBUG OPTIMIZE(2) DATE(FEBRUARY 2, 1982) XREF


            $title ('ERROR MESSAGE MODULE')
  1         errorm:
            do;

            /*

              modified  3/28/81  R. Silberstein
              modified  3/30/81  R. Silberstein
              modified  4/7/81   R. Silberstein
              modified  4/24/81  R. Silberstein

            */

            /*
                   This is the module to perform error message
                   printout to the print file. The interface from
                   other modules goes through the subroutine

                          ERRMSG ( errornumber )

                   This routine also increments the global variable
                   'ERRORS' which contains the accumulated number
                   of errors throughout the assembly.
            */

            $include (:f1:macro.lit)
        =   $nolist
            $include (:f1:struc.lit)
        =   $nolist
            $include (:f1:ermod.lit)
        =   $nolist
            $include (:f1:subr1.ext)
        =   $nolist
            $include (:f1:subr2.ext)
        =   $nolist
            $include (:f1:print.ext)
        =   $nolist
            $include (:f1:global.ext)
        =   $nolist


            /*      Error messages :      */

 69   1     dcl
            nulltext(1) byte data (0),       /* dummy text */
            tex00(*)    byte data ('ILLEGAL FIRST ITEM',0),
            tex01(*)    byte data ('MISSING PSEUDO INSTRUCTION',0),
            tex02(*)    byte data ('ILLEGAL PSEUDO INSTRUCTION',0),
            tex03(*)    byte data ('DOUBLE DEFINED VARIABLE',0),
            tex04(*)    byte data ('DOUBLE DEFINED LABEL',0),
            tex05(*)    byte data ('UNDEFINED INSTRUCTION',0),
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            tex06(*)    byte data ('GARBAGE AT END OF LINE - IGNORED',0),
            tex07(*)    byte data ('OPERAND(S) MISMATCH INSTRUCTION',0),
            tex08(*)    byte data ('ILLEGAL INSTRUCTION OPERANDS',0),
            tex09(*)     byte data ('MISSING INSTRUCTION',0),
            tex10(*)    byte data ('UNDEFINED ELEMENT OF EXPRESSION',0),
            tex11(*)    byte data ('ILLEGAL PSEUDO OPERAND',0),
            tex12(*)    byte data ('NESTED 'IF' ILLEGAL - 'IF' IGNORED',0),
            tex13(*)    byte data ('ILLEGAL 'IF' OPERAND - 'IF' IGNORED',0),
            tex14(*)    byte data ('NO MATCHING 'IF' FOR 'ENDIF'',0),
            tex15(*)    byte data ('SYMBOL ILLEGALLY FORWARD REFERENCED - ',
                                  'NEGLECTED',0),
            tex16(*)    byte data ('DOUBLE DEFINED SYMBOL - ',
                                  'TREATED AS UNDEFINED',0),
            tex17(*)    byte data ('INSTRUCTION NOT IN CODE SEGMENT',0),
            tex18(*)    byte data ('FILE NAME SYNTAX ERROR',0),
            tex19(*)    byte data ('NESTED INCLUDE NOT ALLOWED',0),
            tex20(*)    byte data ('ILLEGAL EXPRESSION ELEMENT',0),
            tex21(*)    byte data ('MISSING TYPE INFORMATION IN OPERAND(S)',0),
            tex22(*)    byte data ('LABEL OUT OF RANGE',0),
            tex23(*).   byte data ('MISSING SEGMENT INFORMATION IN OPERAND',0),
            tex24(*)    byte data ('ERROR IN CODEMACROBUILDING',0),

            /*      Error-message pointer table:      */

            texttab(*) address data (.tex00,.tex01,.tex02,.tex03,.tex04,
                                     .tex05,.tex06,.tex07,.tex08,
                                     .tex09,.tex10,.tex11,.tex12,.tex13,
                                     .tex14,.tex15,.tex16,.tex17,.tex18,
                                     .tex19,.tex20,.tex21,.tex22,.tex23,
                                     .tex24,.nulltext);

            /*      Additional text strings:      */

70  1       dcl
            errnotext(*)   byte data ('** ERROR NO:',0),
            neartext(*)    byte data (' **  NEAR: ',0),
            spacetext(*)   byte data ('   ',0);

            /*      Table of defined error numbers:      */

71  1       dcl
            errtab (*) byte data (firstitem,missingpseudo,
                                  illegalpseudo,doubledefvar,doubledeflab,
                                  illegalmacro,end$of$line$err,opmismatch,
                                  illioper,missinstr,udefsymbol,
                                  pseudooperr,nestediferr,ifparerr,
                                  missiferr,neglecterr,doubledefsymb,
                                  instrerr,filesynterr,
                                  nestedincludeerr,illexprelem,misstypeinfo,
                                  laboutofrange,missseginfo,codemacroerr);

            /*          Subroutines:        */

72  1       printtext: proc(txt);
73  2         dcl txt address,ch based txt (1) byte,i byte;
74  2         i=0ffh;
75  2         do while ch(i:=i+1) <> 0;
```

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 76  3          call printsinglebyte(ch(i));
 77  3        end$while;
 78  2      end printtext;

 79  1      locerrmsg: proc(erno);
 80  2        dcl t address,help(5) byte,(helpstop,erno,i) byte;

 81  2        errortype: proc byte;
 82  3          i=0ffh;
 83  3          do while (i:=i+1) < length(errtab);
 84  4            if erno = errtab(i) then return i;
               end$while;
 87  3          return length(errtab);
 88  3        end errortype;

 89  2        helpstop,accum(acclen)=0;
 90  2        call decout(erno,.help(0));

 91  2        t=texttab(errortype);    /* pick up correct error text */

 92  2        call printtext(.errnotext); /* print error message line */
 93  2        call printtext(.help(2));
 94  2        if accum(0) <> cr then$do
 96  3          call printtext(.neartext);
 97  3          call printtext(.accum(0));  /* (print current token) */
 98  3          CALL PRINTSINGLEBYTE ('''');
 99  3        end$if;
100  2        call printtext(.spacetext);
101  2        call printtext(t);
102  2        call printcrlf;
103  2      end locerrmsg;

          /*      Public routine:      */

104  1      errmsg: proc(erno) public;
105  2        dcl erno byte;
106  2        if print$on OR PRINTSWITCHOFF then$do
108  3          if not errorprinted then$do
110  4            errorprinted=true;
111  4            call locerrmsg(erno);
112  4            errors=errors+1;
113  4          end$if;
             end$if;
115  2      end errmsg;

116  1      end$module errorm;
```

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CROSS-REFERENCE LISTING

DEFN	ADDR	SIZE	NAME, ATTRIBUTES, AND REFERENCES
46	0000H	4	ABSADDR. . . . . BYTE ARRAY(4) EXTERNAL(54)
66	0000H	1	ACCLEN . . . . . BYTE EXTERNAL(58) 89
66	0000H	1	ACCLENSAVE . . . . BYTE EXTERNAL(61)
66	0000H	80	ACCUM. . . . . BYTE ARRAY(80) EXTERNAL(59) 89 94 97
66	0000H	80	ACCUMSAVE. . . . . BYTE ARRAY(80) EXTERNAL(60)
2			ADDR . . . . . LITERALLY 6 9 12 15 21 39 42 45 48 66
29	0000H		ALPHANUMERIC . . . PROCEDURE BYTE EXTERNAL(8) STACK=0000H
32	0000H		ASCIICHAR. . . . . PROCEDURE BYTE EXTERNAL(9) STACK=0000H
66	0008H	1	BASEINDEX. . . . . BYTE MEMBER(OPERANDS)
66	0008H	1	BASEINDEX. . . . . BYTE MEMBER(CURRENTSYMBOL)
3			BASEREGBIT . . . . LITERALLY
3			BASEREGCOUNT . . . LITERALLY
3			BREGBIT. . . . . LITERALLY
3			BREGCOUNT. . . . . LITERALLY
23	0000H	1	CH . . . . . BYTE PARAMETER 24
32	0000H	1	CH . . . . . BYTE PARAMETER 33
26	0000H	1	CH . . . . . BYTE PARAMETER 27
35	0000H	1	CH . . . . . BYTE PARAMETER 36
20	0000H	1	CH . . . . . BYTE PARAMETER 21
73	0000H	1	CH . . . . . BYTE BASED(TXT) ARRAY(1) 75 76
50	0000H	1	CH . . . . . BYTE PARAMETER 51
29	0000H	1	CH . . . . . BYTE PARAMETER 30
66	0000H	2	CIP. . . . . WORD EXTERNAL(23)
4			CODEMACROERR . . . LITERALLY 71
66	0000H	1	CODEMACROFLAG. . . BYTE EXTERNAL(80)
3			CODEMACROREAD. . . LITERALLY
66	0000H	2	CODEMACROPTR . . . WORD EXTERNAL(75)
11	0000H		COPY . . . . . PROCEDURE EXTERNAL(2) STACK=0000H
2			CR . . . . . LITERALLY 94
66	0000H	2	CSCIP. . . . . WORD EXTERNAL(28)
66	0000H	1	CSEGSPEC . . . . . BYTE EXTERNAL(26)
66	0000H	1	CSEGTYPE . . . . . BYTE EXTERNAL(24)
66	0000H	2	CSEGVALUE. . . . . WORD EXTERNAL(25)
66	0000H	1	CSPEC. . . . . BYTE EXTERNAL(35)
66	0000H	2	CURCSEG. . . . . WORD EXTERNAL(31)
66	0000H	2	CURDSEG. . . . . WORD EXTERNAL(32)
66	0000H	2	CURESEG. . . . . WORD EXTERNAL(34)
66	0000H	9	CURRENTSYMBOL. . . STRUCTURE EXTERNAL(71)
66	0000H	2	CURSSEG. . . . . WORD EXTERNAL(33)
47	0000H	2	D. . . . . WORD PARAMETER 48
38	0000H	2	D. . . . . WORD PARAMETER 39
41	0000H	2	D. . . . . WORD PARAMETER 42
11	0000H	2	D. . . . . WORD PARAMETER 12
44	0000H	2	D. . . . . WORD PARAMETER 45
2			DCL. . . . . LITERALLY
47	0000H		DECOUT . . . . . PROCEDURE EXTERNAL(14) STACK=0000H 90
66	0000H	1	DEFAULTDRIVE . . . BYTE EXTERNAL(78)
66	0001H	1	DESCR. . . . . BYTE MEMBER(TOKEN)
23	0000H		DIGIT. . . . . PROCEDURE BYTE EXTERNAL(6) STACK=0000H

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  4             DOUBLEDEFLAB . . .  LITERALLY       71
  4             DOUBLEDEFSYMB. . .  LITERALLY       71
  4             DOUBLEDEFVAR . . .  LITERALLY       71
 66  0000H   2  DSCIP. . . . . .   WORD EXTERNAL(30)
 66  0000H   1  DSPEC. . . . . .   BYTE EXTERNAL(36)
 64  0000H      EJECT. . . . . .   PROCEDURE EXTERNAL(21) STACK=0000H
  2             ELSEDO . . . . .   LITERALLY
  2             ENDCASE. . . . .   LITERALLY
  2             ENDDO. . . . . .   LITERALLY
  2             ENDFOREVER . . .   LITERALLY
  2             ENDIF. . . . . .   LITERALLY       113
  2             ENDMODULE. . . .   LITERALLY
  2             ENDOFFILE. . . .   LITERALLY
  4             ENDOFLINEERR . .   LITERALLY       71
  2             ENDPROC. . . . .   LITERALLY
  2             ENDWHILE . . . .   LITERALLY       85
 66  0000H   1  EOFSET . . . . . .   BYTE EXTERNAL(62)
 38  0000H      EQUAL. . . . . .   PROCEDURE BYTE EXTERNAL(11) STACK=0000H
 79  0000H   1  ERNO . . . . . .   BYTE PARAMETER       80   84   90
104  0004H   1  ERNO . . . . . .   BYTE PARAMETER AUTOMATIC      105  111
104  00C1H  42  ERRMSG . . . . . .   PROCEDURE PUBLIC STACK=0012H
 70  0314H  13  ERRNOTEXT. . . . .   BYTE ARRAY(13) DATA       92
  1  0000H      ERRORM . . . . . .   PROCEDURE STACK=0000H
 66  0000H   1  ERRORPRINTED . . .   BYTE EXTERNAL(65)        108  110
 66  0000H   2  ERRORS . . . . . .   WORD EXTERNAL(55)        112
 81  0099H  40  ERRORTYPE. . . . .   PROCEDURE BYTE STACK=0002H          91
 71  0332H  25  ERRTAB . . . . . .   BYTE ARRAY(25) DATA       83   84   87
 66  0000H   2  ESCIP. . . . . .   WORD EXTERNAL(27)
 66  0000H   1  ESPEC. . . . . .   BYTE EXTERNAL(38)
  2             FALSE. . . . . .   LITERALLY
 17  0000H   2  FCBADR . . . . . .   WORD PARAMETER       18
 17  0000H      FILEABORT. . . . .   PROCEDURE EXTERNAL(4) STACK=0000H
  3             FILEISTRUCTURE . .   LITERALLY
  3             FILEOSTRUCTURE . .   LITERALLY
  4             FILESYNTERR. . . .   LITERALLY       71
 20  0000H      FILL . . . . . .   PROCEDURE EXTERNAL(5) STACK=0000H
  4             FIRSTITEM. . . . .   LITERALLY       71
 66  0000H   2  FIRSTMACROPTR. . .   WORD EXTERNAL(66)
  2             FOREVER. . . . . .   LITERALLY
  2             FORMFEED . . . . .   LITERALLY
 66  0000H   1  FULLSYMBTAB. . . .   BYTE EXTERNAL(68)
 67  0000H      GLOBALINIT . . . .   PROCEDURE EXTERNAL(81) STACK=0000H
 66  0000H   5  HELP . . . . . .   BYTE ARRAY(5) EXTERNAL(76)
 80  0005H   5  HELP . . . . . .   BYTE ARRAY(5)        90   93
 80  000AH   1  HELPSTOP . . . . .   BYTE        89
 41  0000H      HEX1OUT. . . . . .   PROCEDURE EXTERNAL(12) STACK=0000H
 44  0000H      HEX2OUT. . . . . .   PROCEDURE EXTERNAL(13) STACK=0000H
 66  0000H   1  I. . . . . .   BYTE EXTERNAL(77)
 80  000BH   1  I. . . . . .   BYTE        82   83   84   85
 73  0004H   1  I. . . . . .   BYTE        74   75   76
 66  0000H   1  IFLEVEL. . . . . .   BYTE EXTERNAL(70)
 66  0000H   1  IFLIST . . . . . .   BYTE EXTERNAL(41)
  4             IFPARERR . . . . .   LITERALLY       71
  4             ILLEGALMACRO . . .   LITERALLY       71
  4             ILLEGALPSEUDO. . .   LITERALLY       71
  4             ILLEXPRELEM. . . .   LITERALLY       71
  4             ILLIOPER . . . . .   LITERALLY       71
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 66  0000H    1  INCLUDEDEFAULT . .   BYTE EXTERNAL(79)
 66  0000H    1  INCLUDEON. . . . .   BYTE EXTERNAL(69)
  3            INDEXREGBIT. . . .   LITERALLY
  3            INDEXREGCOUNT. . .   LITERALLY
  2            INIT . . . . . .     LITERALLY
  4            INSTRERR . . . . .   LITERALLY       71
 66  0000H    1  INTELHEXON . . . .   BYTE EXTERNAL(63)
  3            IREGBIT. . . . . .   LITERALLY
  3            IREGCOUNT. . . . .   LITERALLY
  4            LABOUTOFRANGE. . .   LITERALLY       71
 66  0000H    2  LENGTH . . . . . .   WORD MEMBER(OPERANDS)
 66  0000H    2  LENGTH . . . . . .   WORD MEMBER(CURRENTSYMBOL)
               LENGTH . . . . . .   BUILTIN         83   87
 26  0000H        LETTER . . . . . .   PROCEDURE BYTE EXTERNAL(7) STACK=0000H
  2            LF . . . . . .       LITERALLY
  2            LIT. . . . . .       LITERALLY        2    3    4
 79  0027H  114  LOCERRMSG. . . . .   PROCEDURE STACK=000CH          111
 66  0000H    2  MACROPTR . . . . .   WORD EXTERNAL(67)
 66  0000H    1  MAXCOL . . . . . .   BYTE EXTERNAL(42)
  4            MISSIFERR. . . . .   LITERALLY       71
  4            MISSINGPSEUDO. . .   LITERALLY       71
  4            MISSINSTR. . . . .   LITERALLY       71
  4            MISSSEGMINFO . . .   LITERALLY       71
  4            MISSTYPEINFO . . .   LITERALLY       71
 47  0000H    2  N. . . . . .         WORD PARAMETER       48
 44  0000H    2  N. . . . . .         WORD PARAMETER       45
 41  0000H    1  N. . . . . .         BYTE PARAMETER       42
 38  0000H    1  N. . . . . .         BYTE PARAMETER       39
 20  0000H    1  N. . . . . .         BYTE PARAMETER       21
 11  0000H    1  N. . . . . .         BYTE PARAMETER       12
  8  0000H    2  N. . . . . .         WORD PARAMETER        9
 70  0321H   13  NEARTEXT . . . . .   BYTE ARRAY(13) DATA       96
  4            NEGLECTERR . . . .   LITERALLY       71
  4            NESTEDIFERR. . . .   LITERALLY       71
  4            NESTEDINCLUDEERR .   LITERALLY       71
 66  0000H    1  NEXTCH . . . . . .   BYTE EXTERNAL(57)
 66  0000H    1  NOERROR. . . . . .   BYTE EXTERNAL(64)
 66  0000H    1  NOOPER . . . . . .   BYTE EXTERNAL(73)
  3            NOOVERCOUNT. . . .   LITERALLY
  3            NOOVERRIDEBIT. . .   LITERALLY
 69  0034H    1  NULLTEXT . . . . .   BYTE ARRAY(1) DATA        69
 66  0006H    2  OFFSET . . . . . .   WORD MEMBER(OPERANDS)
 66  0006H    2  OFFSET . . . . . .   WORD MEMBER(CURRENTSYMBOL)
 66  0000H   36  OPERANDS . . . . .   STRUCTURE ARRAY(4) EXTERNAL(74)
  3            OPERANDSTRUC . . .   LITERALLY       66
  4            OPMISMATCH . . . .   LITERALLY       71
 14  0000H        OUTTEXT. . . . . .   PROCEDURE EXTERNAL(3) STACK=0000H
 66  0000H    1  PAGESIZE . . . . .   BYTE EXTERNAL(48)
 66  0000H    1  PASS . . . . . .     BYTE EXTERNAL(22)
 66  0000H  240  PREFIX . . . . . .   BYTE ARRAY(240) EXTERNAL(52)
 66  0000H    1  PREFIXPTR. . . . .   BYTE EXTERNAL(53)
 53  0000H        PRINTCRLF. . . . .   PROCEDURE EXTERNAL(16) STACK=0000H      102
 66  0000H    1  PRINTDEVICE. . . .   BYTE EXTERNAL(45)
 59  0000H        PRINTINIT. . . . .   PROCEDURE EXTERNAL(19) STACK=0000H
 55  0000H        PRINTNEWPAGE . . .   PROCEDURE EXTERNAL(17) STACK=0000H
 66  0000H    1  PRINTON. . . . . .   BYTE EXTERNAL(39)       106
 50  0000H        PRINTSINGLEBYTE. .   PROCEDURE EXTERNAL(15) STACK=0000H      76   98
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 57  0000H        PRINTSOURCELINE. .  PROCEDURE EXTERNAL(18) STACK=0000H
 66  0000H     1  PRINTSWITCHOFF . .  BYTE EXTERNAL(40)        106
 61  0000H        PRINTTERMINATE . .  PROCEDURE EXTERNAL(20) STACK=0000H
 72  0000H    39  PRINTTEXT. . . . .  PROCEDURE STACK=0008H          92   93   96   97  100  101
  2                PROC . . . . . .  LITERALLY        5    8   29   32   41   44   47   50   53   55   57
                                       59   61   64   72   79   81  104
  4                PSEUDOOPERR. . .  LITERALLY       71
 20  0000H     2  PT . . . . . .  WORD PARAMETER       21
  2                REENT. . . . . .  LITERALLY
 38  0000H     2  S. . . . . .  WORD PARAMETER       39
 11  0000H     2  S. . . . . .  WORD PARAMETER       12
 66  0000H    12  SAVESOURCE . . .  BYTE ARRAY(12) EXTERNAL(44)
  3                SEGMBIT. . . . .  LITERALLY
  3                SEGMCOUNT. . . .  LITERALLY
 66  0004H     2  SEGMENT. . . . .  WORD MEMBER(OPERANDS)
 66  0004H     2  SEGMENT. . . . .  WORD MEMBER(CURRENTSYMBOL)
  3                SEGTYPEBIT . . .  LITERALLY
  3                SEGTYPECOUNT . .  LITERALLY
 66  0003H     1  SFLAG. . . . . .  BYTE MEMBER(OPERANDS)
 66  0003H     1  SFLAG. . . . . .  BYTE MEMBER(CURRENTSYMBOL)
 66  0000H     1  SIMFORM. . . . .  BYTE EXTERNAL(49)
 66  0000H    80  SOURCEBUF. . . .  BYTE ARRAY(80) EXTERNAL(50)
 66  0000H    12  SOURCENAME . . .  BYTE ARRAY(12) EXTERNAL(43)
 66  0000H     1  SOURCEPTR. . . .  BYTE EXTERNAL(51)
  2                SPACE. . . . . .  LITERALLY
 70  032EH     4  SPACETEXT. . . .  BYTE ARRAY(4) DATA       100
 66  0000H     2  SSCIP. . . . . .  WORD EXTERNAL(29)
 66  0000H     1  SSPEC. . . . . .  BYTE EXTERNAL(37)
  2                STRUC. . . . . .  LITERALLY       66
 66  0002H     1  STYPE. . . . . .  BYTE MEMBER(OPERANDS)
 66  0002H     1  STYPE. . . . . .  BYTE MEMBER(CURRENTSYMBOL)
 66  0000H     1  SYMBOLDEVICE . .  BYTE EXTERNAL(46)
  3                SYMBOLHEAD . . .  LITERALLY
  3                SYMBOLSTRUC. . .  LITERALLY       66
 66  0000H     2  SYMBTABADR . . .  WORD EXTERNAL(72)
 80  0002H     2  T. . . . . .  WORD        91  101
 14  0000H     2  T. . . . . .  WORD PARAMETER       15
  2                TAB. . . . . .  LITERALLY
 69  0033H    19  TEX00. . . . . .  BYTE ARRAY(19) DATA        69
 69  0048H    27  TEX01. . . . . .  BYTE ARRAY(27) DATA        69
 69  0063H    27  TEX02. . . . . .  BYTE ARRAY(27) DATA        69
 69  007EH    24  TEX03. . . . . .  BYTE ARRAY(24) DATA        69
 69  0096H    21  TEX04. . . . . .  BYTE ARRAY(21) DATA        69
 69  00ABH    22  TEX05. . . . . .  BYTE ARRAY(22) DATA        69
 69  00C1H    33  TEX06. . . . . .  BYTE ARRAY(33) DATA        69
 69  00E2H    32  TEX07. . . . . .  BYTE ARRAY(32) DATA        69
 69  0102H    29  TEX08. . . . . .  BYTE ARRAY(29) DATA        69
 69  011FH    20  TEX09. . . . . .  BYTE ARRAY(20) DATA        69
 69  0133H    32  TEX10. . . . . .  BYTE ARRAY(32) DATA        69
 69  0153H    23  TEX11. . . . . .  BYTE ARRAY(23) DATA        69
 69  016AH    35  TEX12. . . . . .  BYTE ARRAY(35) DATA        69
 69  018DH    36  TEX13. . . . . .  BYTE ARRAY(36) DATA        69
 69  01B1H    29  TEX14. . . . . .  BYTE ARRAY(29) DATA        69
 69  01CEH    48  TEX15. . . . . .  BYTE ARRAY(48) DATA        69
 69  01FEH    45  TEX16. . . . . .  BYTE ARRAY(45) DATA        69
 69  022BH    32  TEX17. . . . . .  BYTE ARRAY(32) DATA        69
 69  024BH    23  TEX18. . . . . .  BYTE ARRAY(23) DATA        69
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 69  0262H   27  TEX19. . . . . .   BYTE ARRAY(27) DATA        69
 69  027DH   27  TEX20. . . . . .   BYTE ARRAY(27) DATA        69
 69  0298H   39  TEX21. . . . . .   BYTE ARRAY(39) DATA        69
 69  02BFH   19  TEX22. . . . . .   BYTE ARRAY(19) DATA        69
 69  02D2H   39  TEX23. . . . . .   BYTE ARRAY(39) DATA        69
 69  02F9H   27  TEX24. . . . . .   BYTE ARRAY(27) DATA        69
 17  0000H    2  TEXTADR. . . . .   WORD PARAMETER         18
 69  0000H   52  TEXTTAB. . . . .   WORD ARRAY(26) DATA        91
  2              THENDO . . . . .   LITERALLY         94  106  108
 66  0000H   30  TITLE. . . . . .   BYTE ARRAY(30) EXTERNAL(47)
 66  0000H    4  TOKEN. . . . . .   STRUCTURE EXTERNAL(56)
  2              TRUE . . . . . .   LITERALLY        110
 72  0004H    2  TXT. . . . . .    WORD PARAMETER AUTOMATIC        73   75   76
 66  0000H    1  TYPE . . . . . .   BYTE MEMBER(TOKEN)
  3              TYPEBIT. . . . .   LITERALLY
  5  0000H       TYPECALC . . . .   PROCEDURE BYTE EXTERNAL(0) STACK=0000H
  3              TYPECOUNT. . . .   LITERALLY
  4              UDEFSYMBOL . . .   LITERALLY        71
 35  0000H       UPPER. . . . . .   PROCEDURE BYTE EXTERNAL(10) STACK=0000H
 61  0000H    1  USEFACT. . . . .   BYTE PARAMETER         62
  5  0000H    2  VAL. . . . . .    WORD PARAMETER          6
 66  0002H    2  VALUE. . . . . .   WORD MEMBER(TOKEN)
  8  0000H       WRDTEST. . . . .   PROCEDURE BYTE EXTERNAL(1) STACK=0000H
```

MODULE INFORMATION:

```
  CODE AREA SIZE     = 00EBH    235D
  CONSTANT AREA SIZE = 034BH    843D
  VARIABLE AREA SIZE = 000CH     12D
  MAXIMUM STACK SIZE = 0012H     18D
  523 LINES READ
  0 PROGRAM ERROR(S)

END OF PL/M-86 COMPILATION
```

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SER. #_____